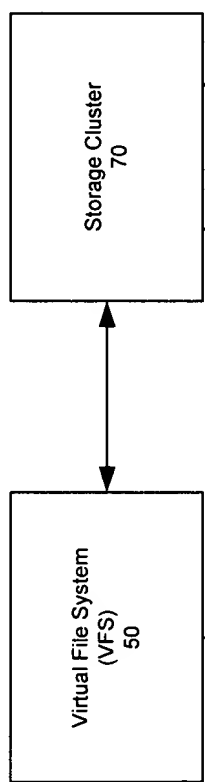
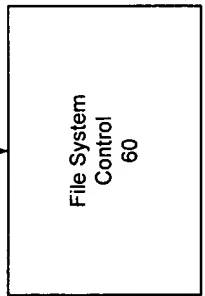


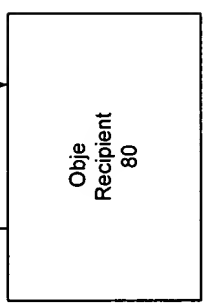
Network Storage System 90



Control - Directory Operations



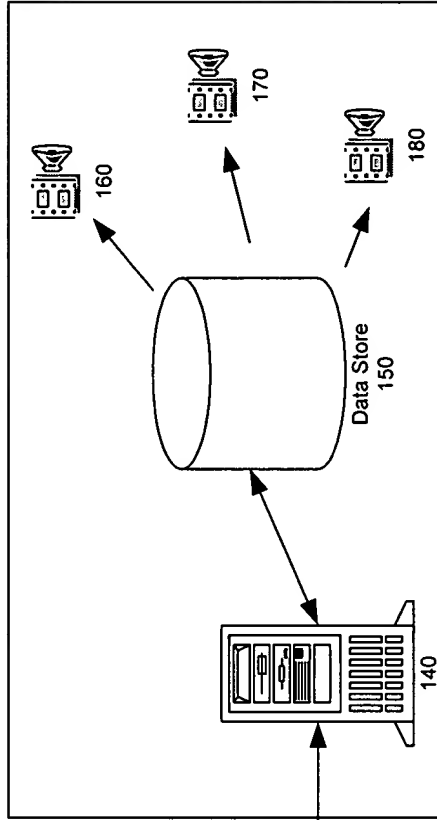
Object File Requests



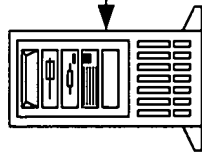
Object Files

Figure 1

Storage Service  
130

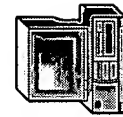


Content Origin Server  
120



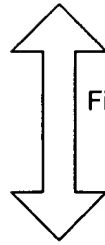
HTTP Requests  
for HTML Files

HTTP Requests  
For Object Files



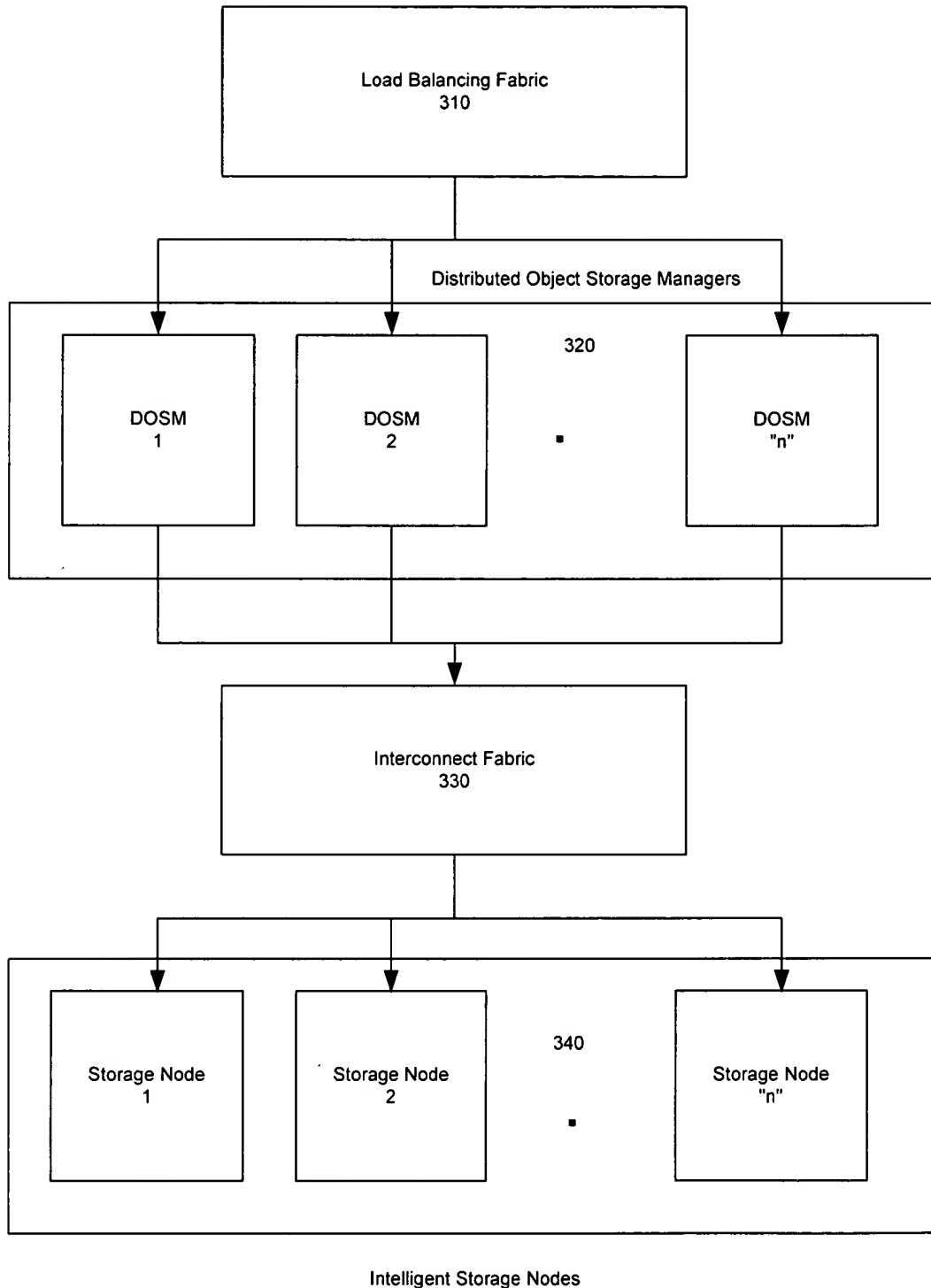
End-User Computer  
100

Figure 2

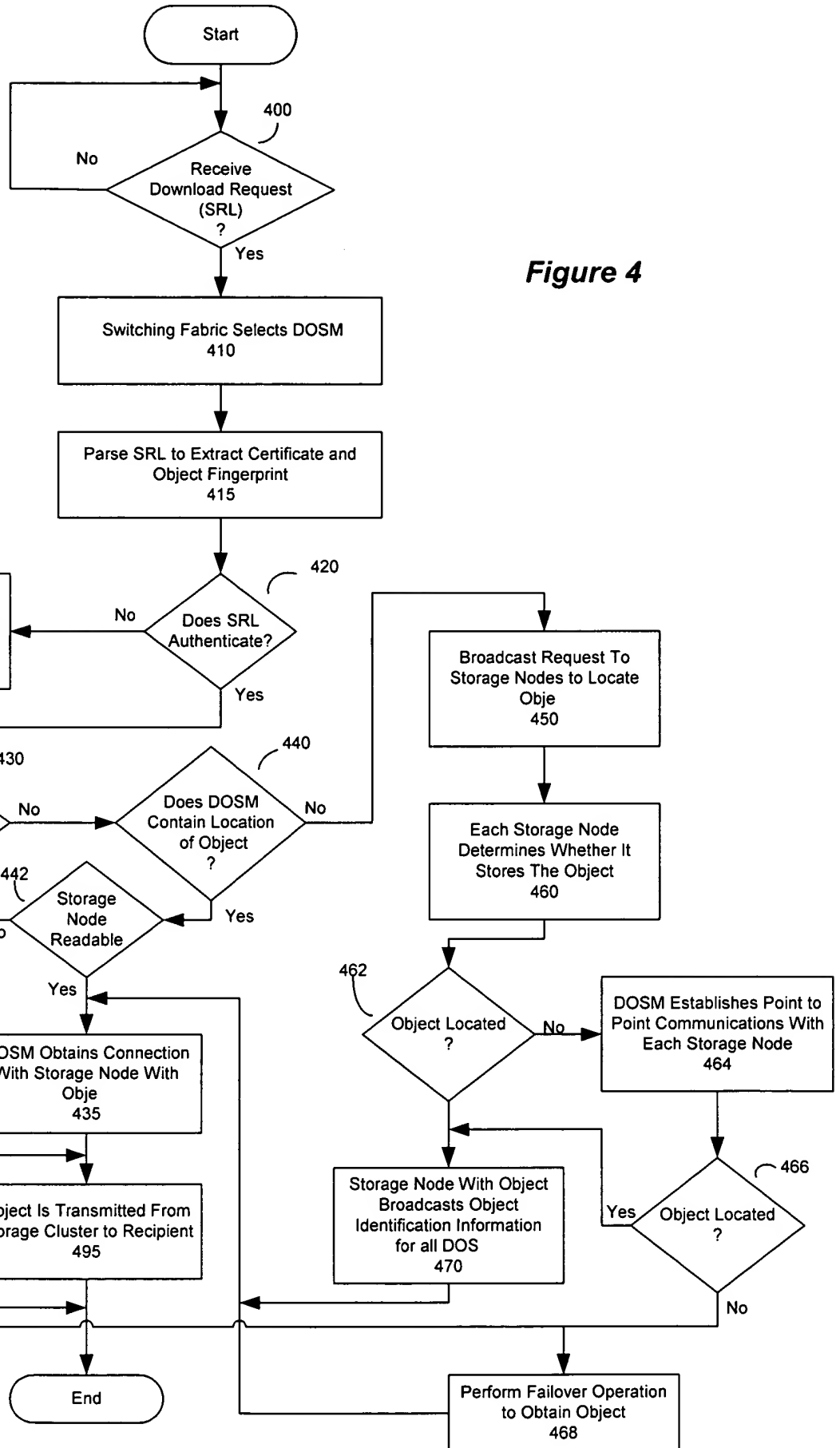


File Upload/Download  
Operations

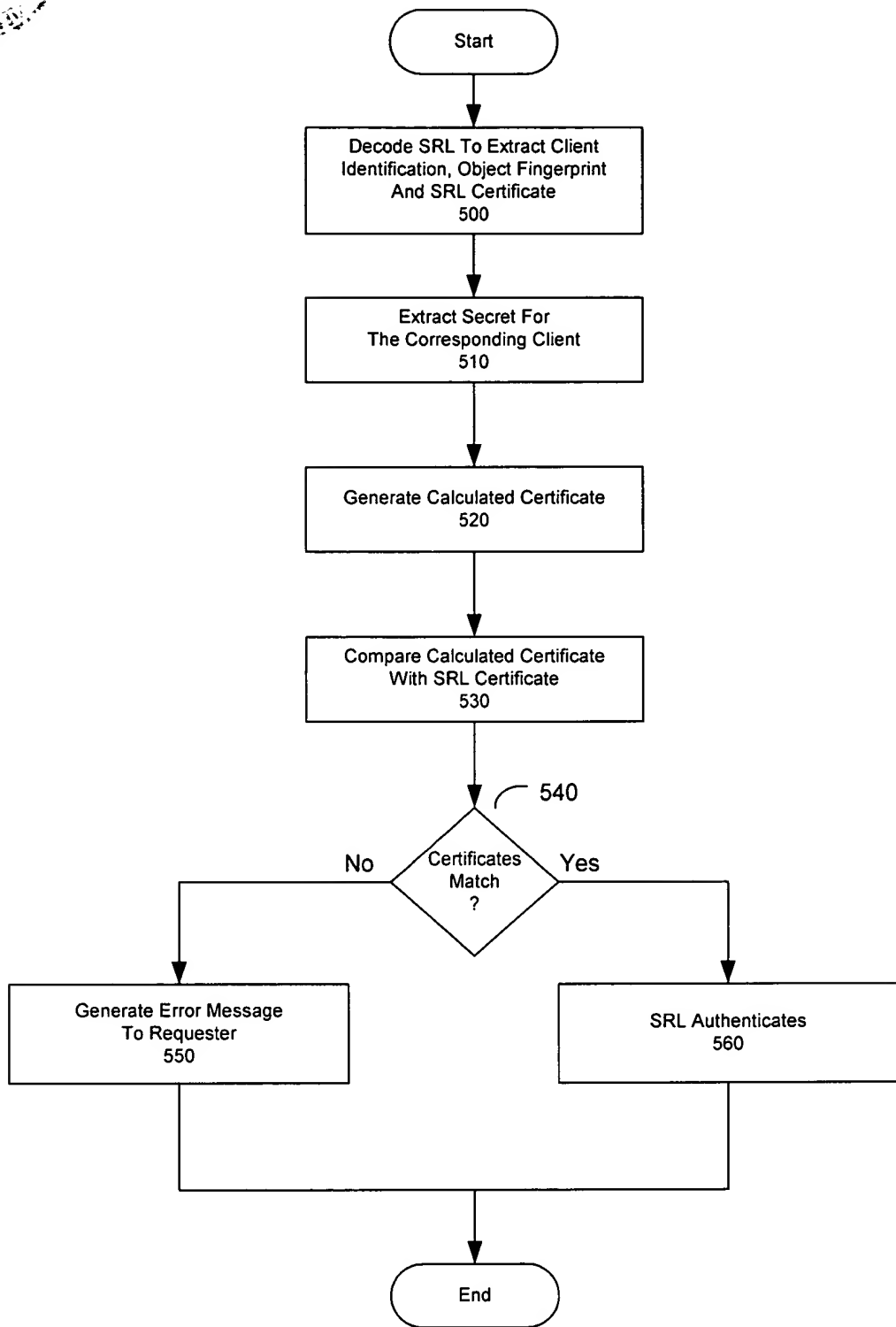
300



**Figure 3**



**Figure 4**






**Figure 5**

DOSM File Look-up Table  
610

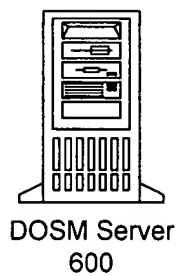
File Id	IP Addr	Disk Id
file1.MD5	10.3.100	3
file2.MD5	10.3.098	1
file3.MD5	10.3.050	6
file4.MD5	10.3.100	2
file5.MD5	10.3.098	1
file6.MD5	10.3.050	8

Data Cache  
620

 Film Snippet
 Advertisement
 Film Preview

State Table  
630

Read - Write State of Storage Nodes
Health of Storage Nodes
Load of Storage Nodes - Storage Capacity - Number of I/O Operatio Per Second



**Figure 6**



Patented 2008 U.S. Patent 7,300,000

700

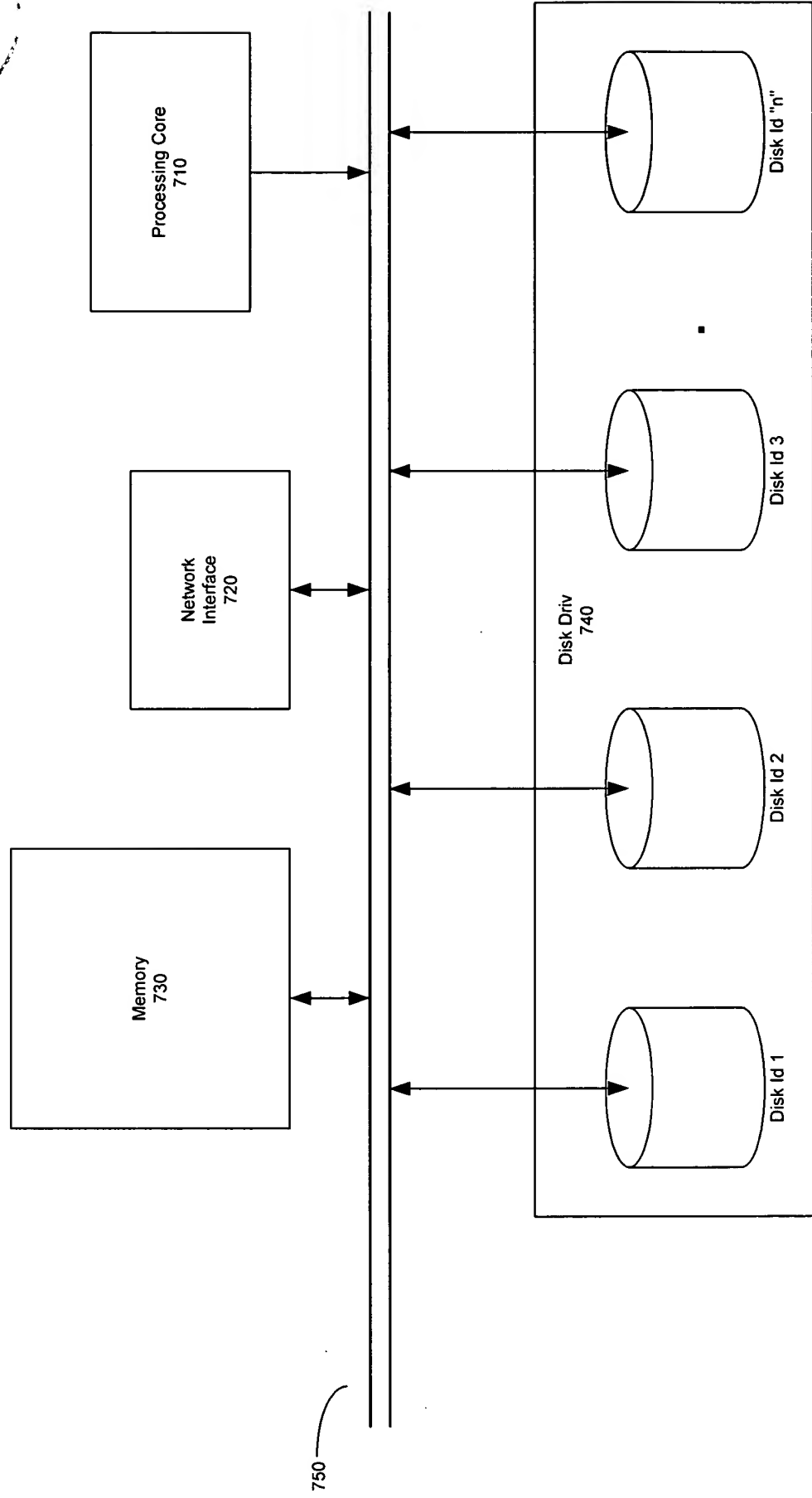
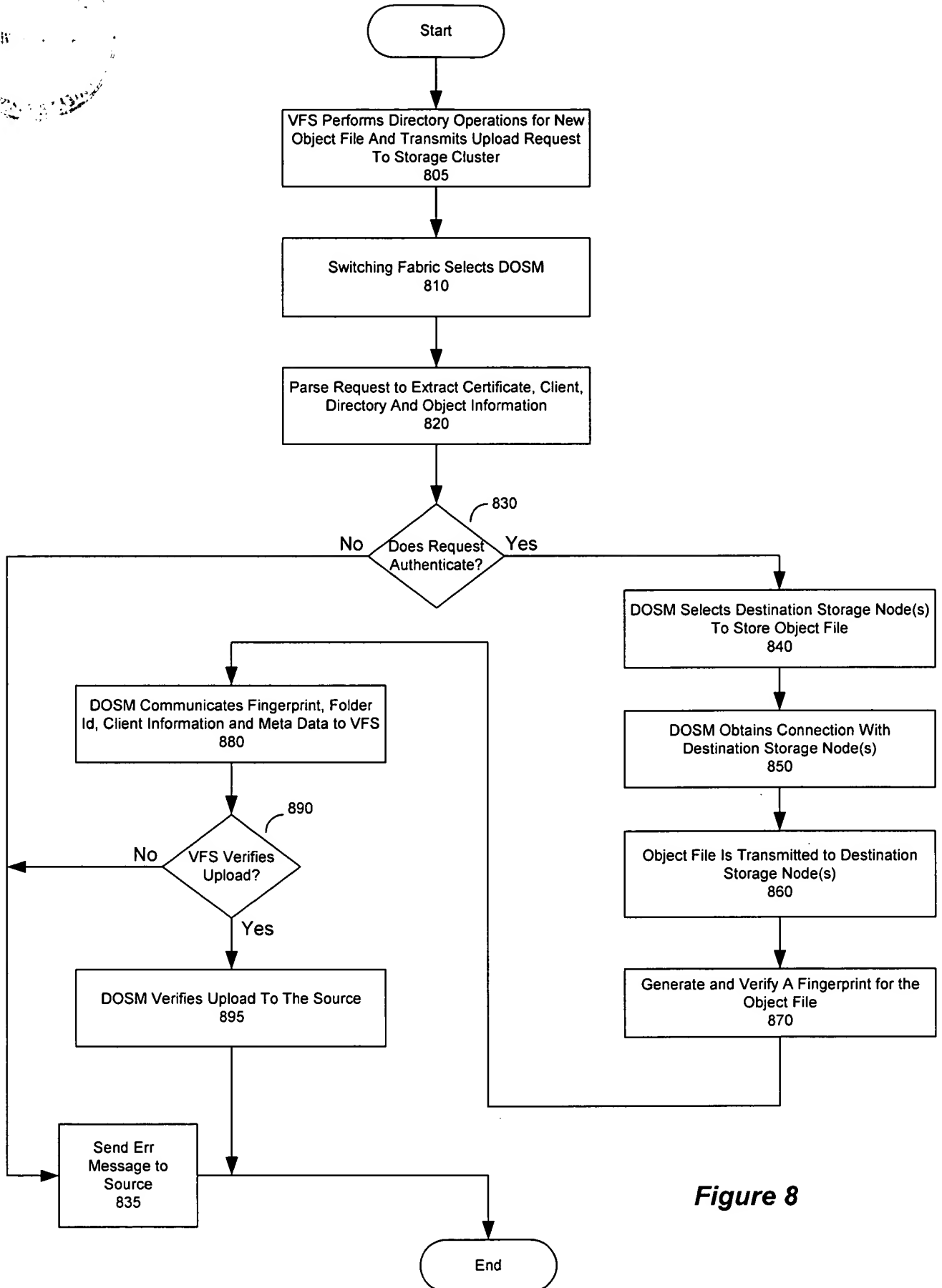
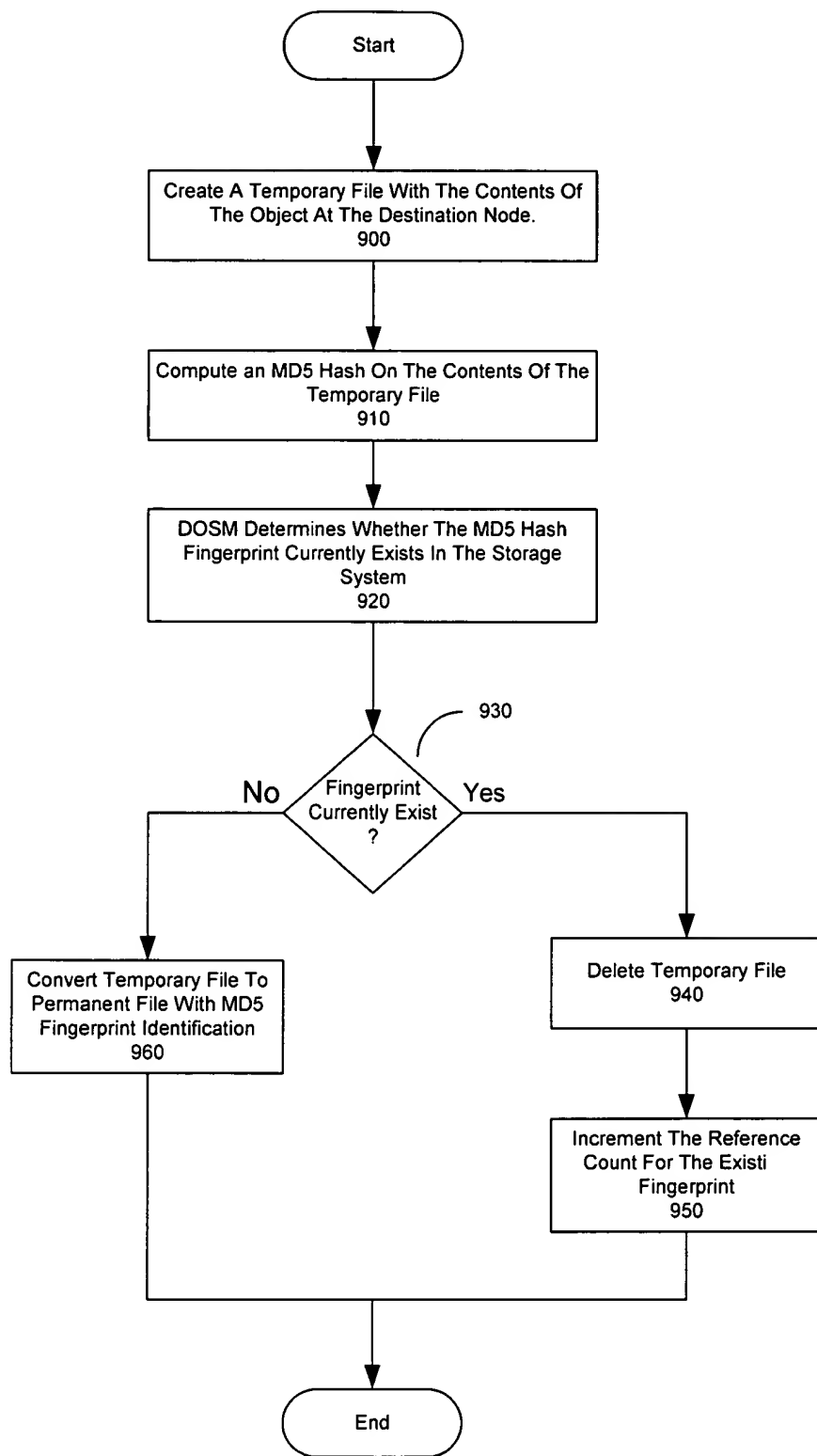


Figure 7



**Figure 8**





**Figure 9**

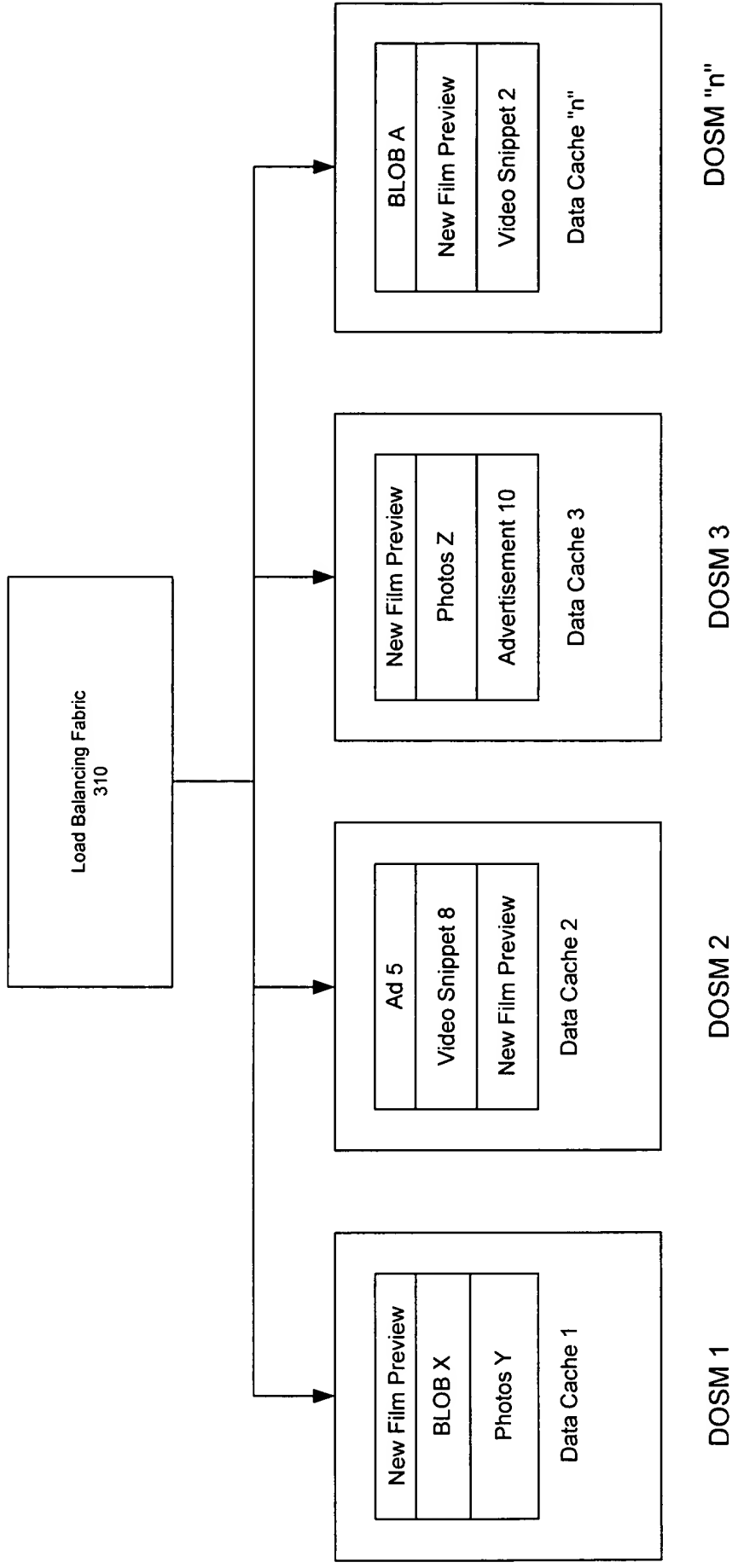
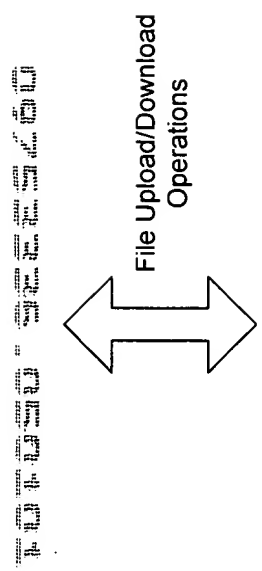
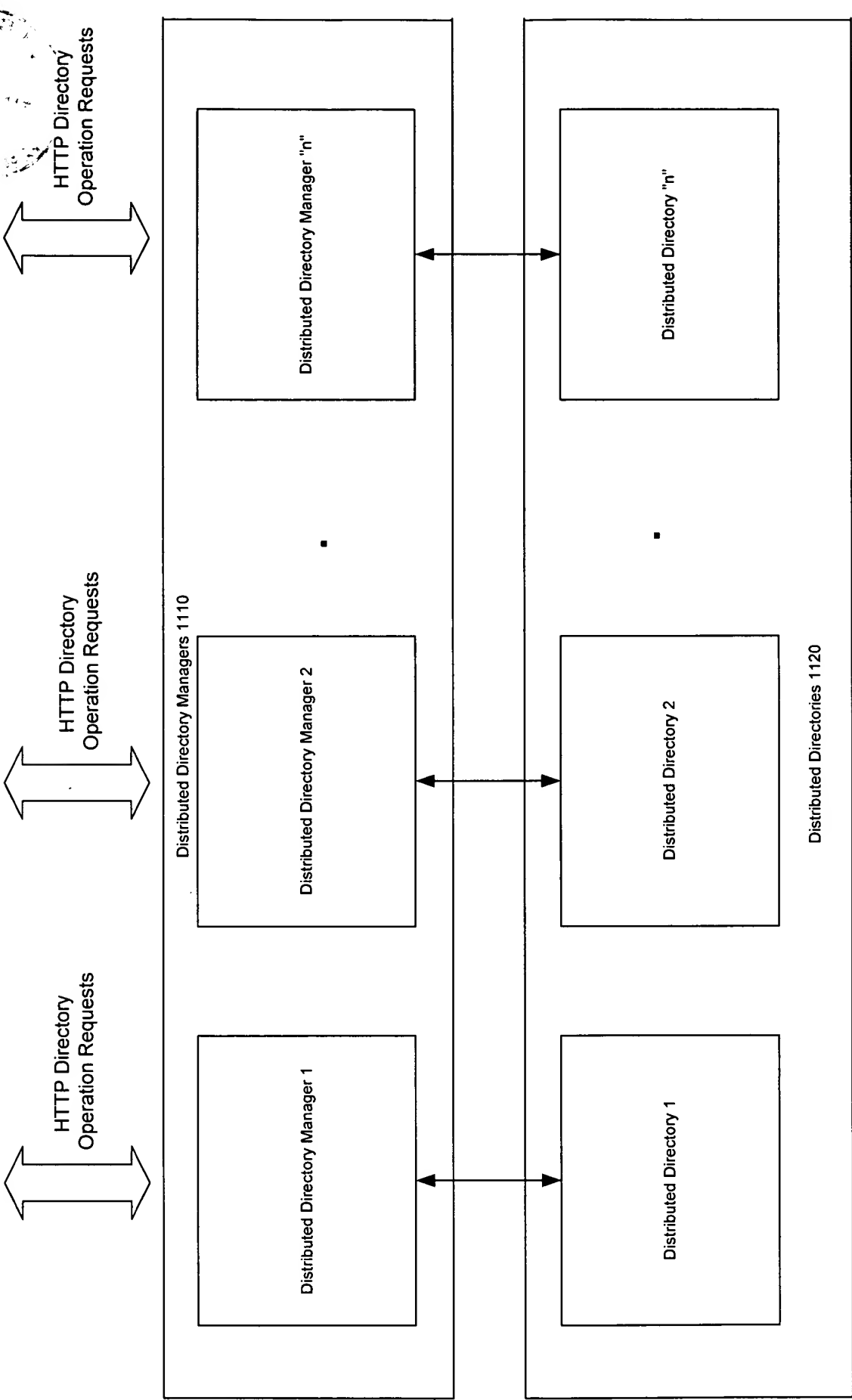


Figure 10



**Figure 11**

Customer Table

Customer Id	Customer Name	Customer Reserved Fiel
1	Customer	[Customer stores data ...]
2	Customer	[Customer stores data ...]
3	Customer C	[Customer stores data ...]
4	Customer D	[Customer stores data ...]

1200

Folder Tab

Customer Id	Folder Id	Folder Parent Id	Metadata
3	2	-	[Reserved]
3	100	2	[Reserved]
3	251	2	[Reserved]
3	166	251	[Reserved]

1210

File Table

Customer Id	File Handle	Folder Id	Folder Parent Id	Metadata
3	52.MD5	100	2	[Reserved]
3	55.MD5	100	2	[Reserved]
3	99.MD5	166	251	[Reserved]
3	67.MD5	166	251	[Reserved]

1220

**Figure 12**



(From Figure 13A)

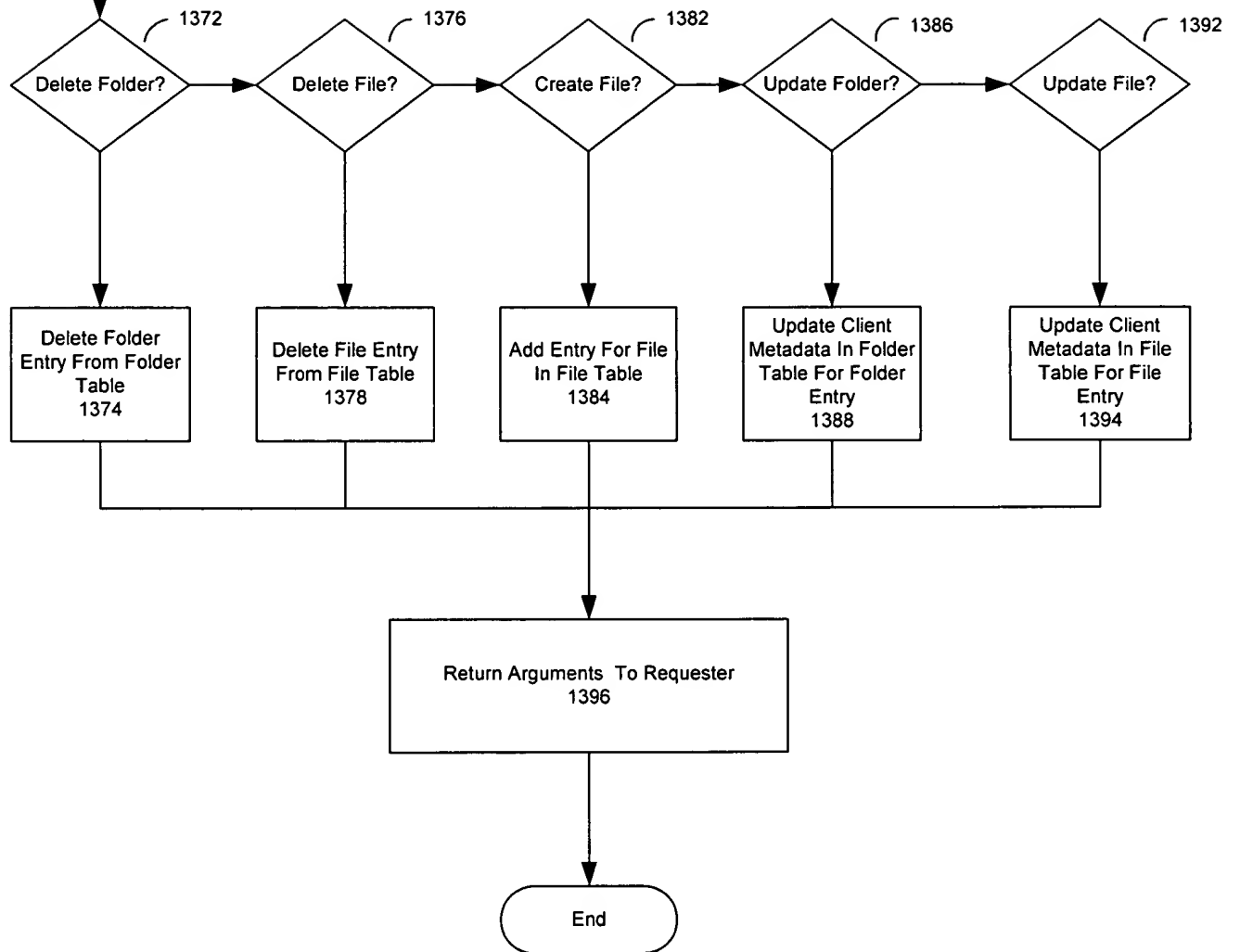
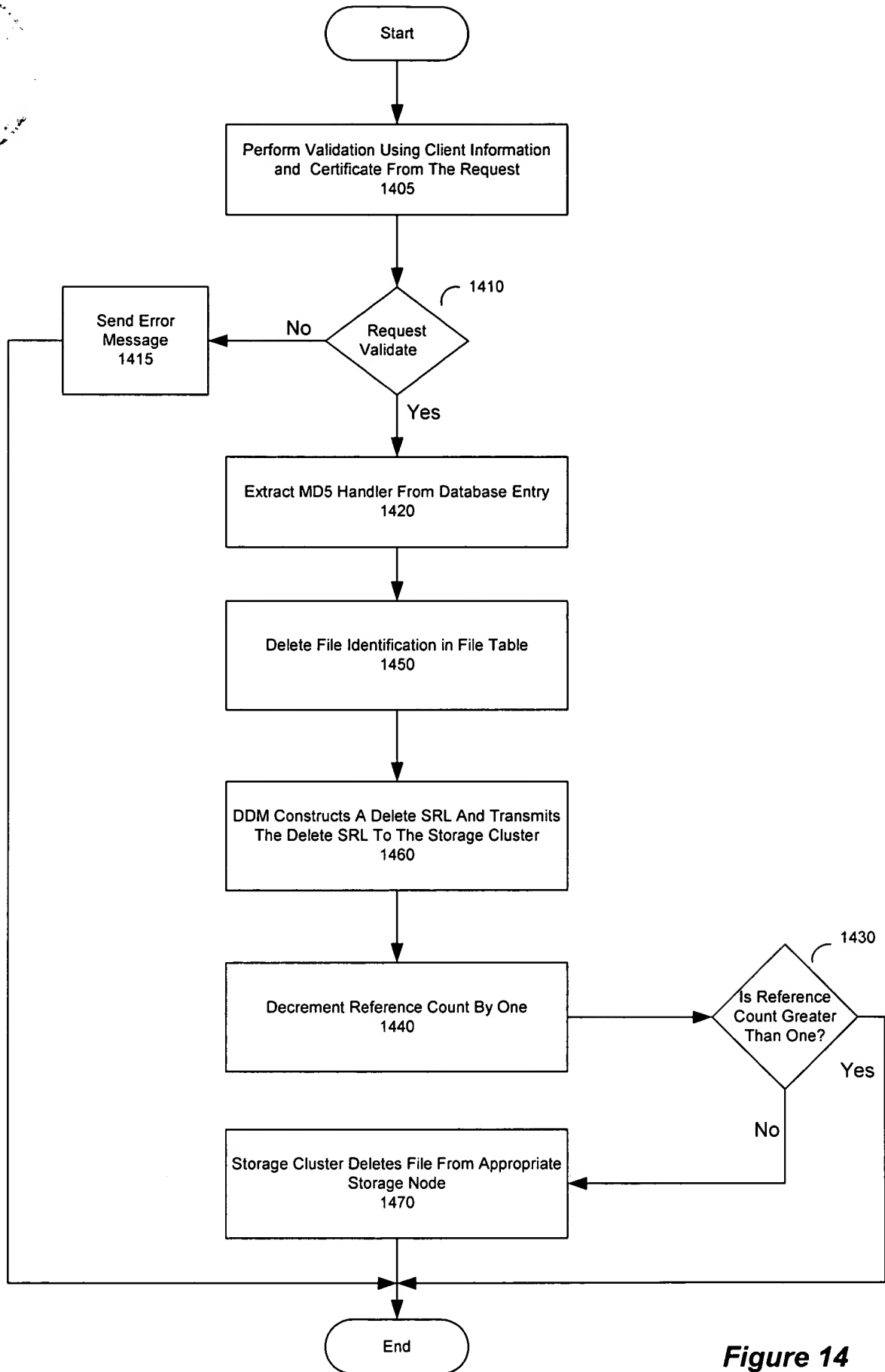


Figure 13B



**Figure 14**

1510 1520 1530

North America  
Storage  
Center  
1510

European  
Storage  
Center  
1520

Asian  
Storage  
Center  
1530

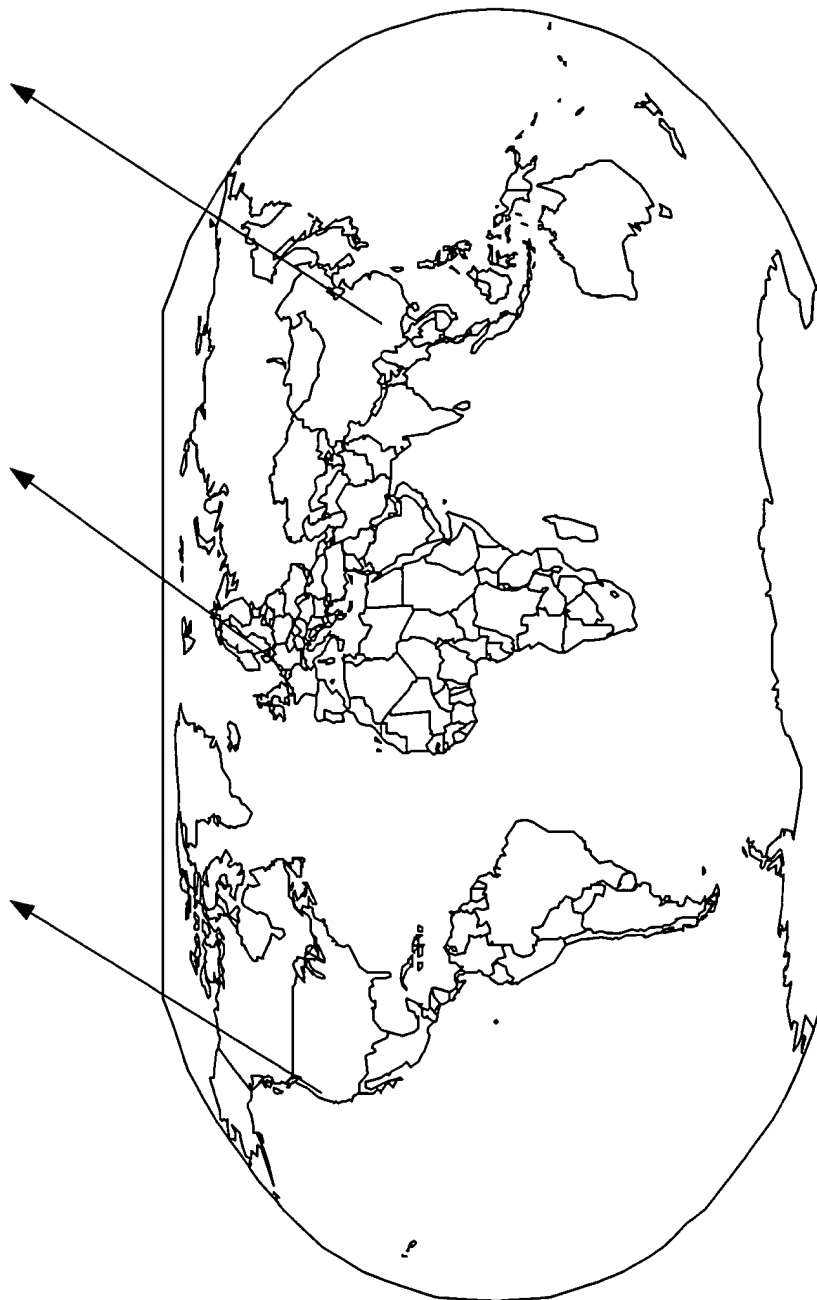


Figure 15



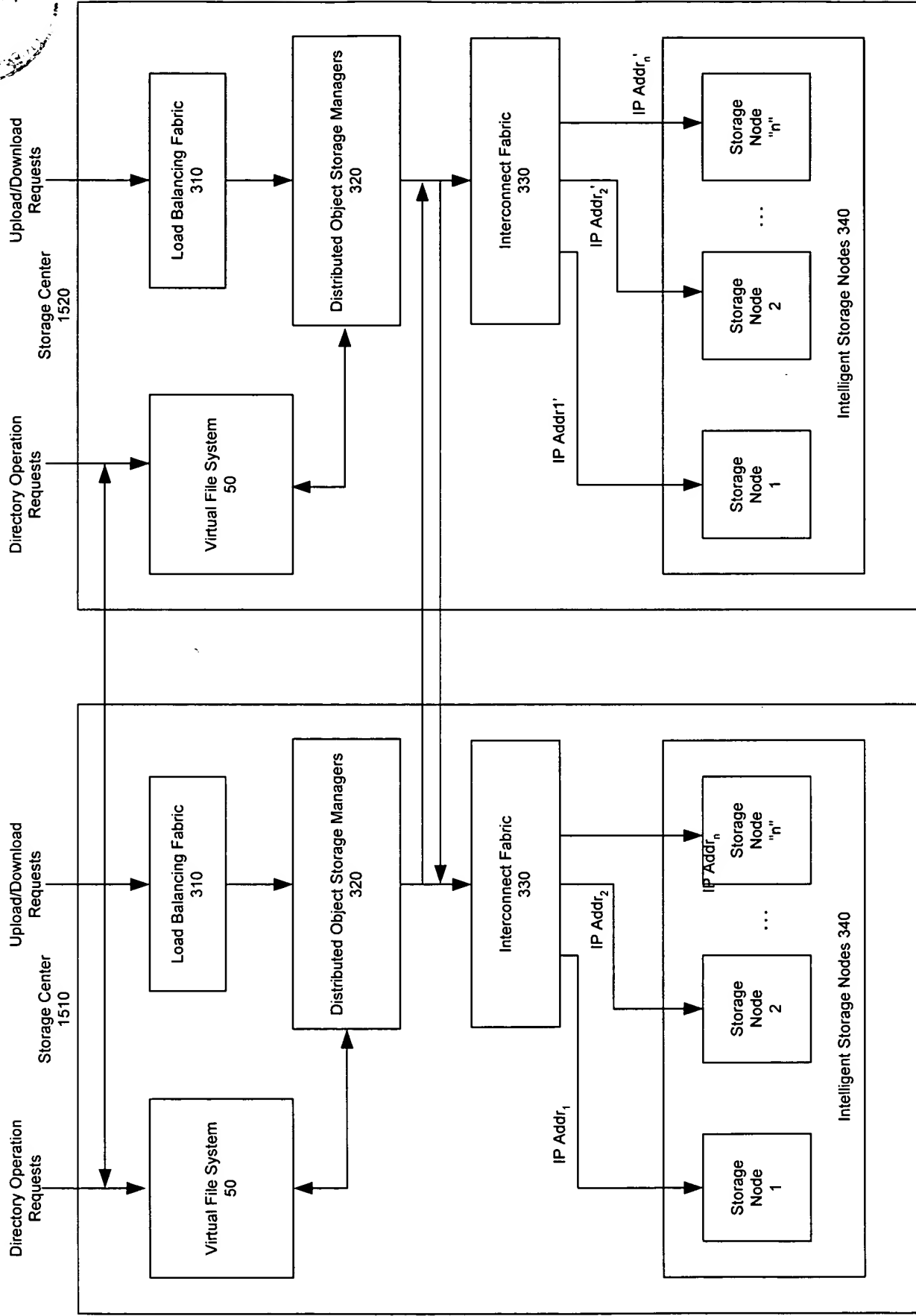


Figure 16



FIG. 17 is a block diagram of a network architecture for content delivery, showing the interconnections between various components.

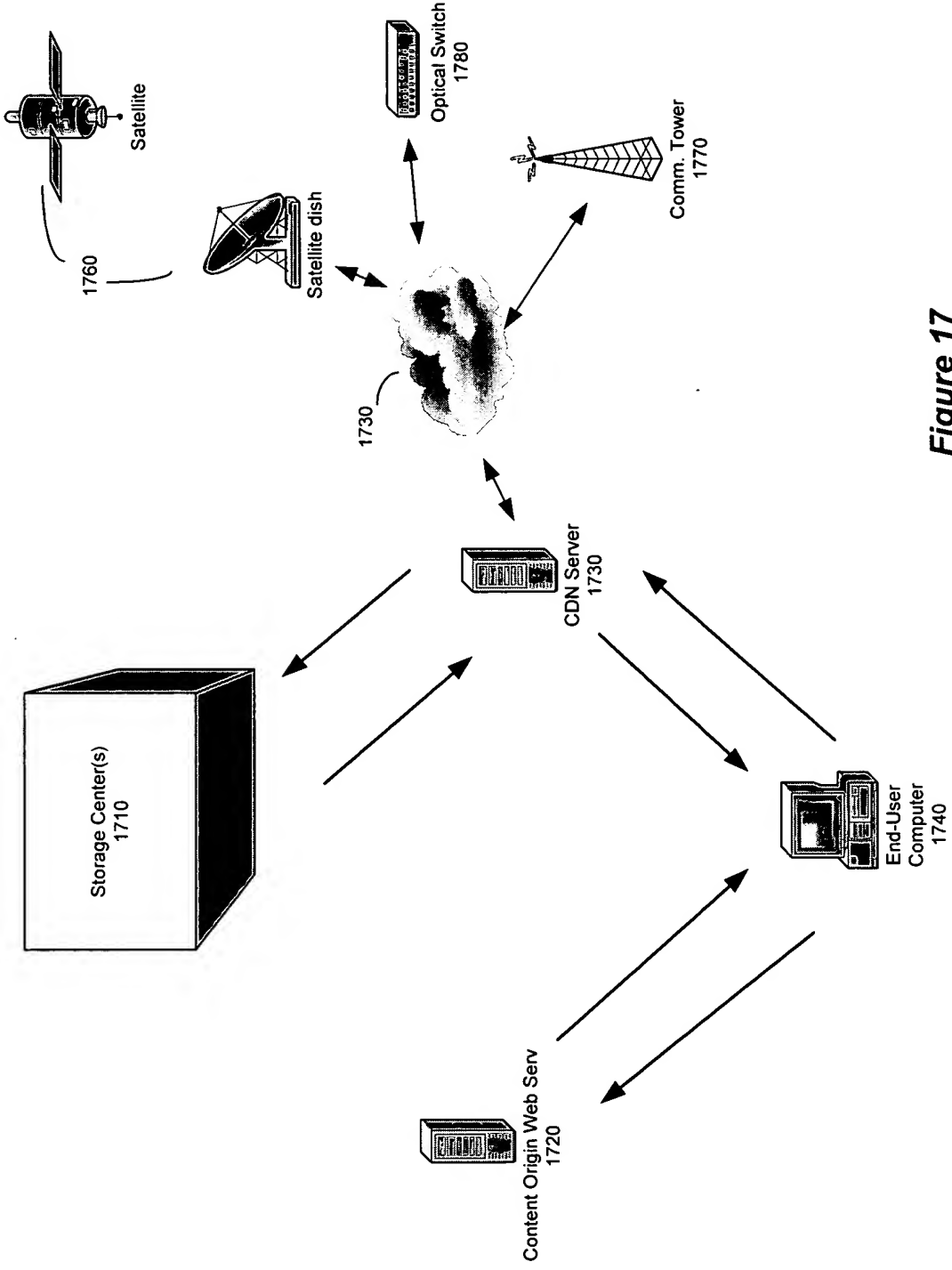
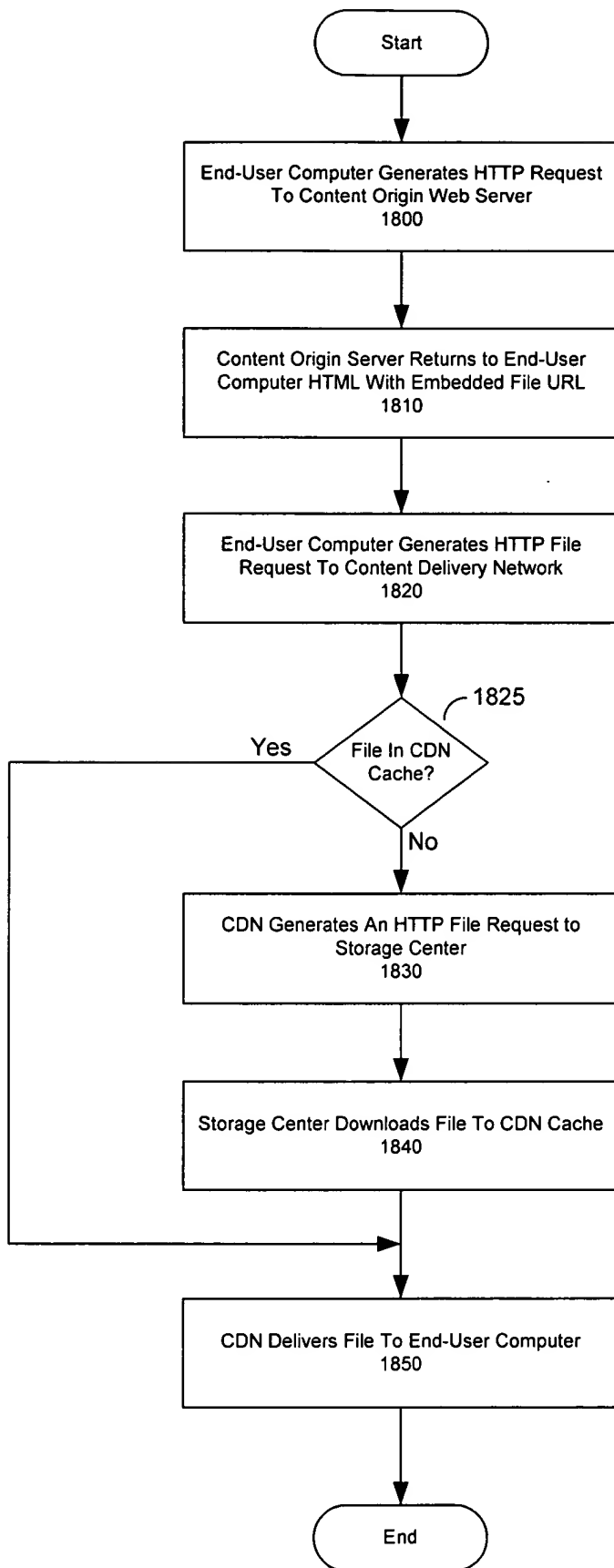
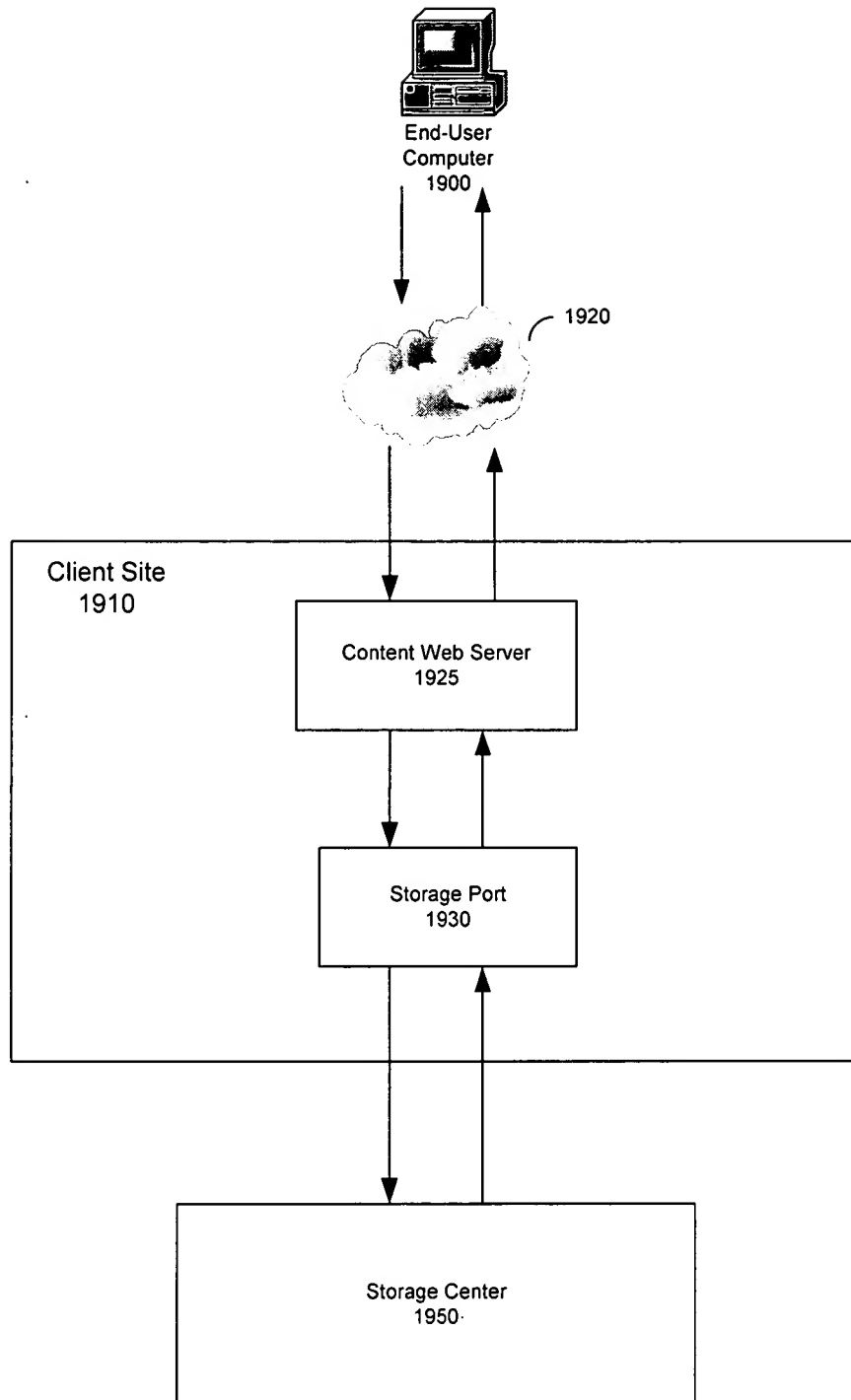


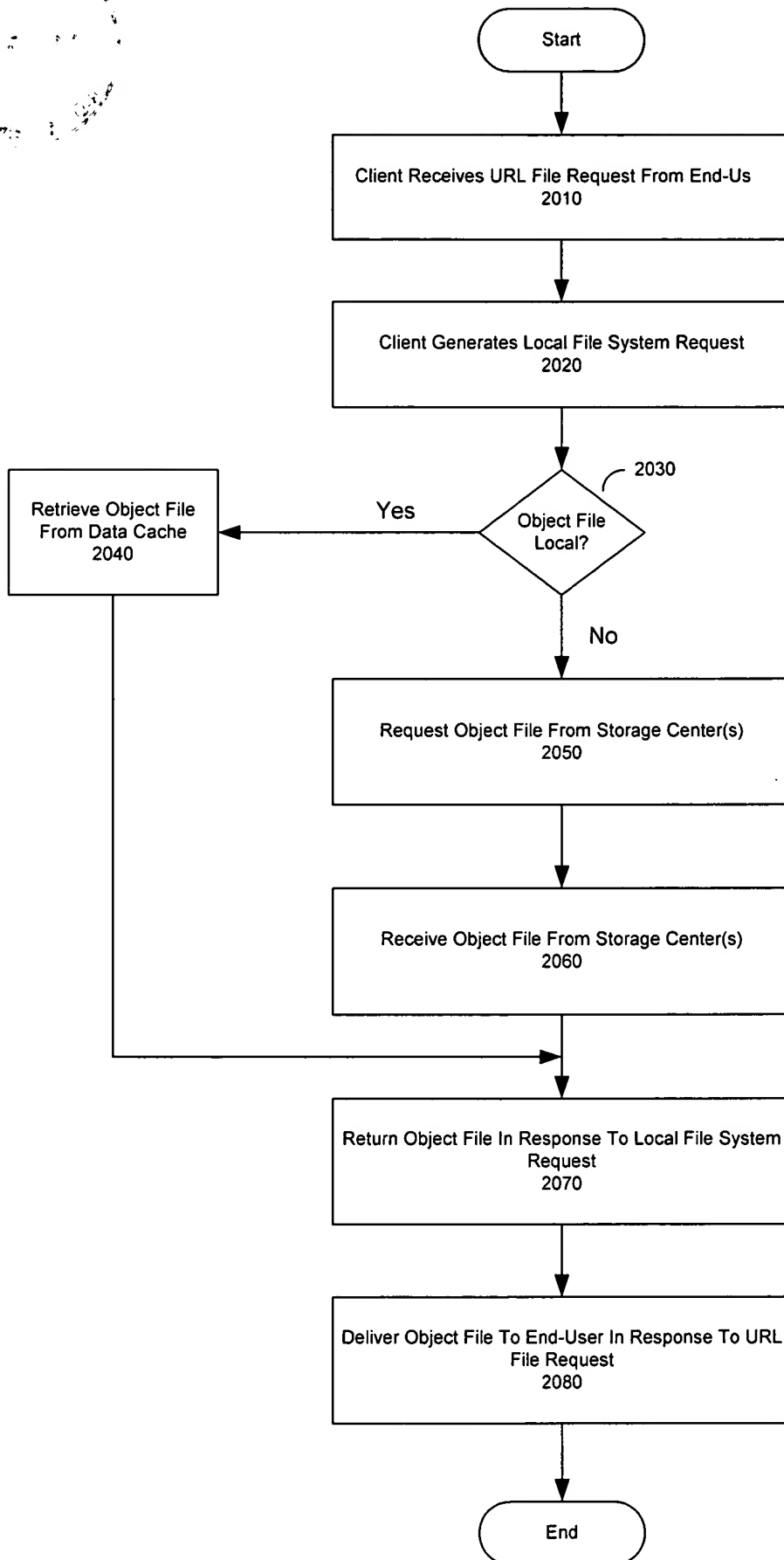
Figure 17



**Figure 18**



**Figure 19**



**Figure 20**

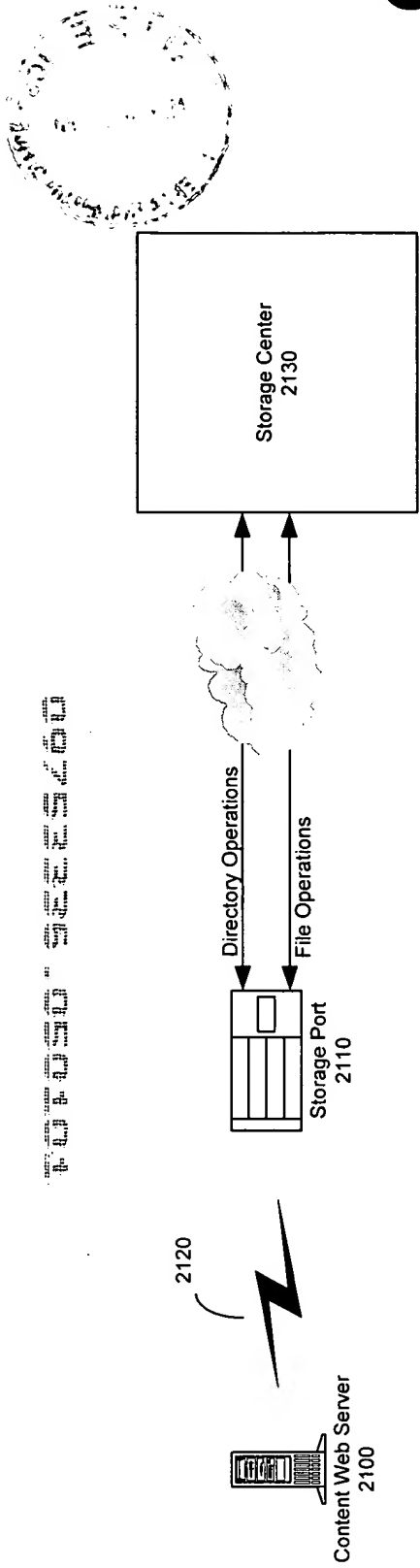


Figure 21a

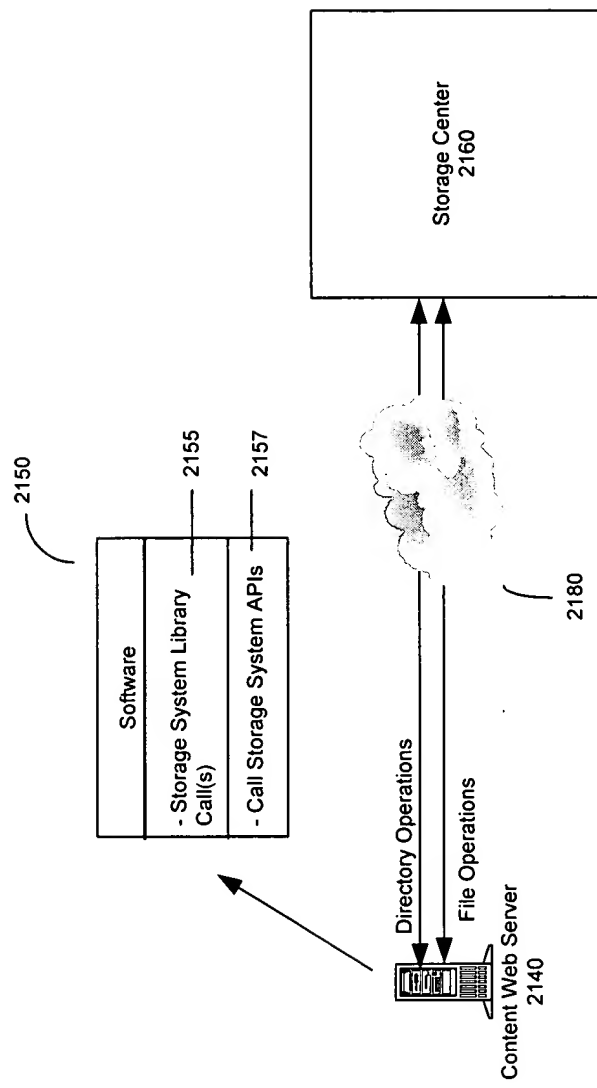


Figure 21b

FIG. 22

Storage Port  
2200

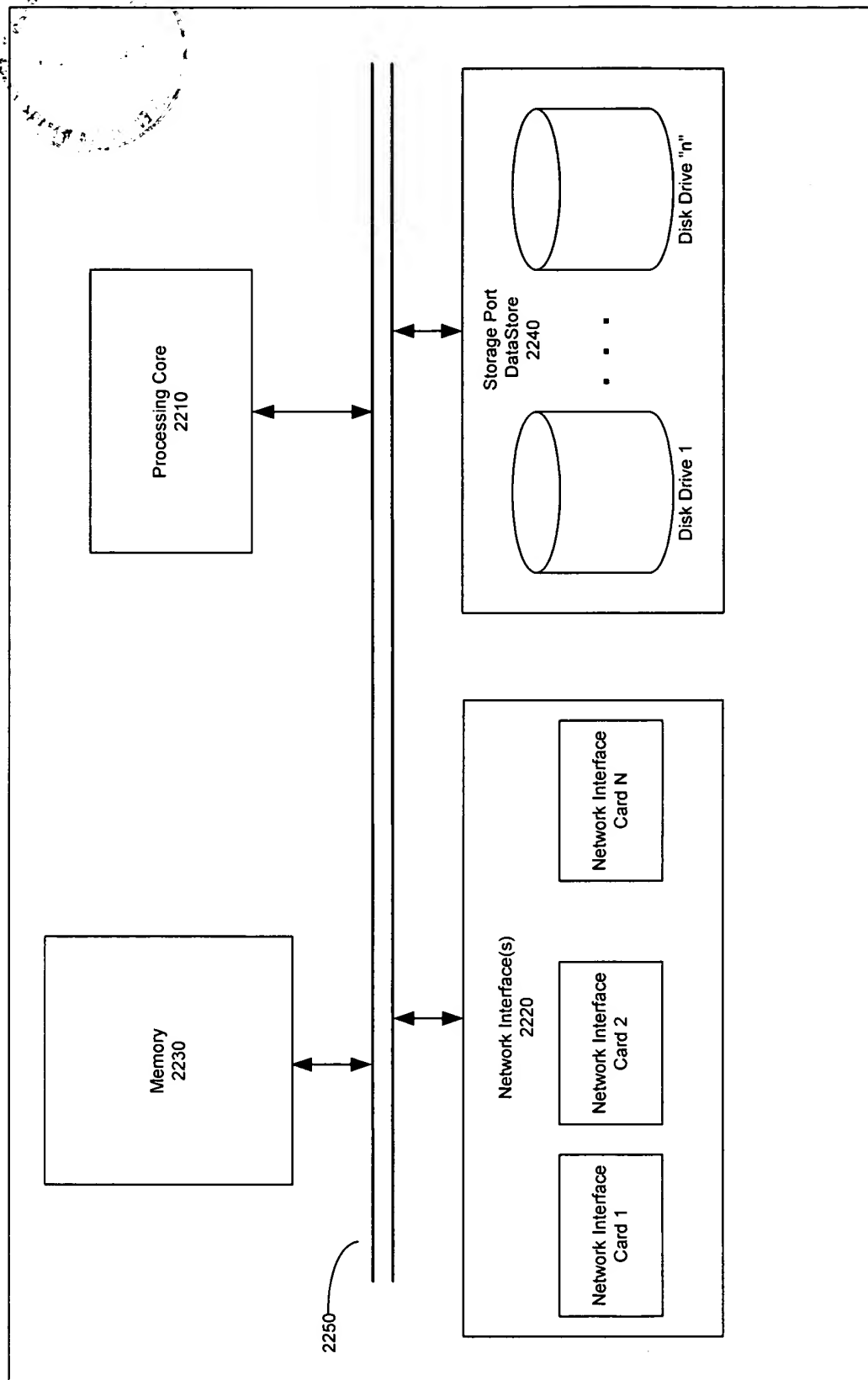
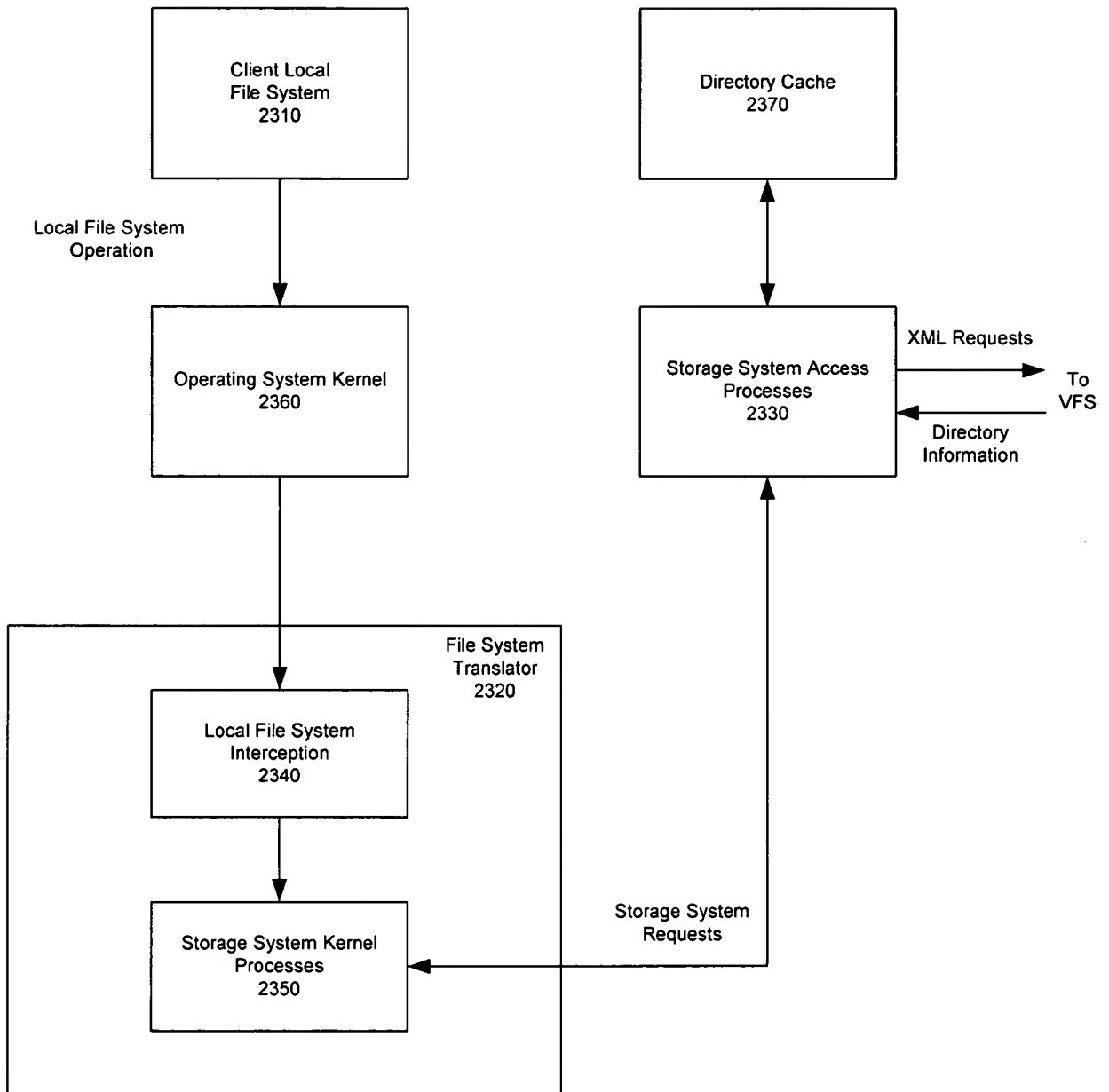


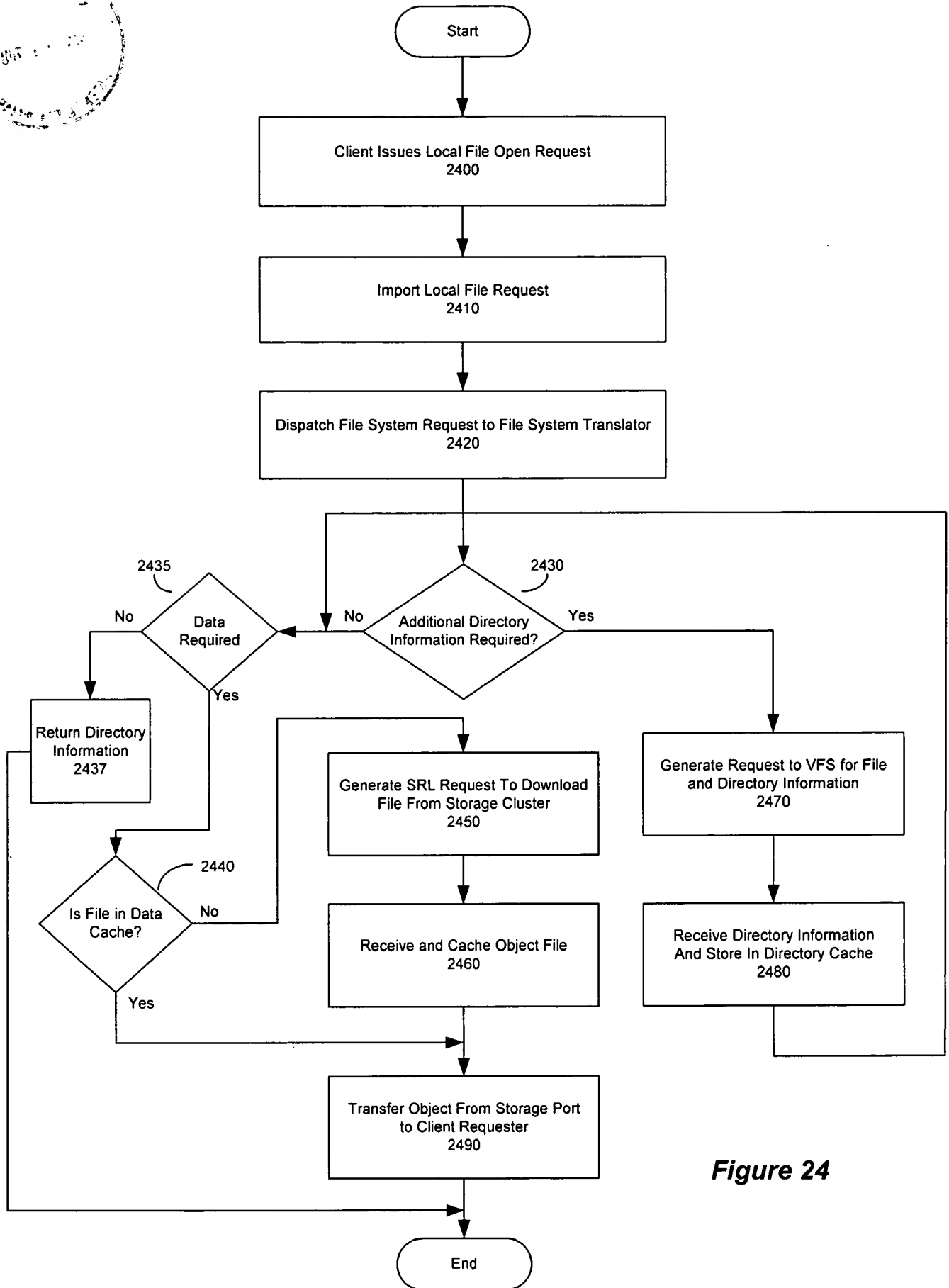
Figure 22

2300



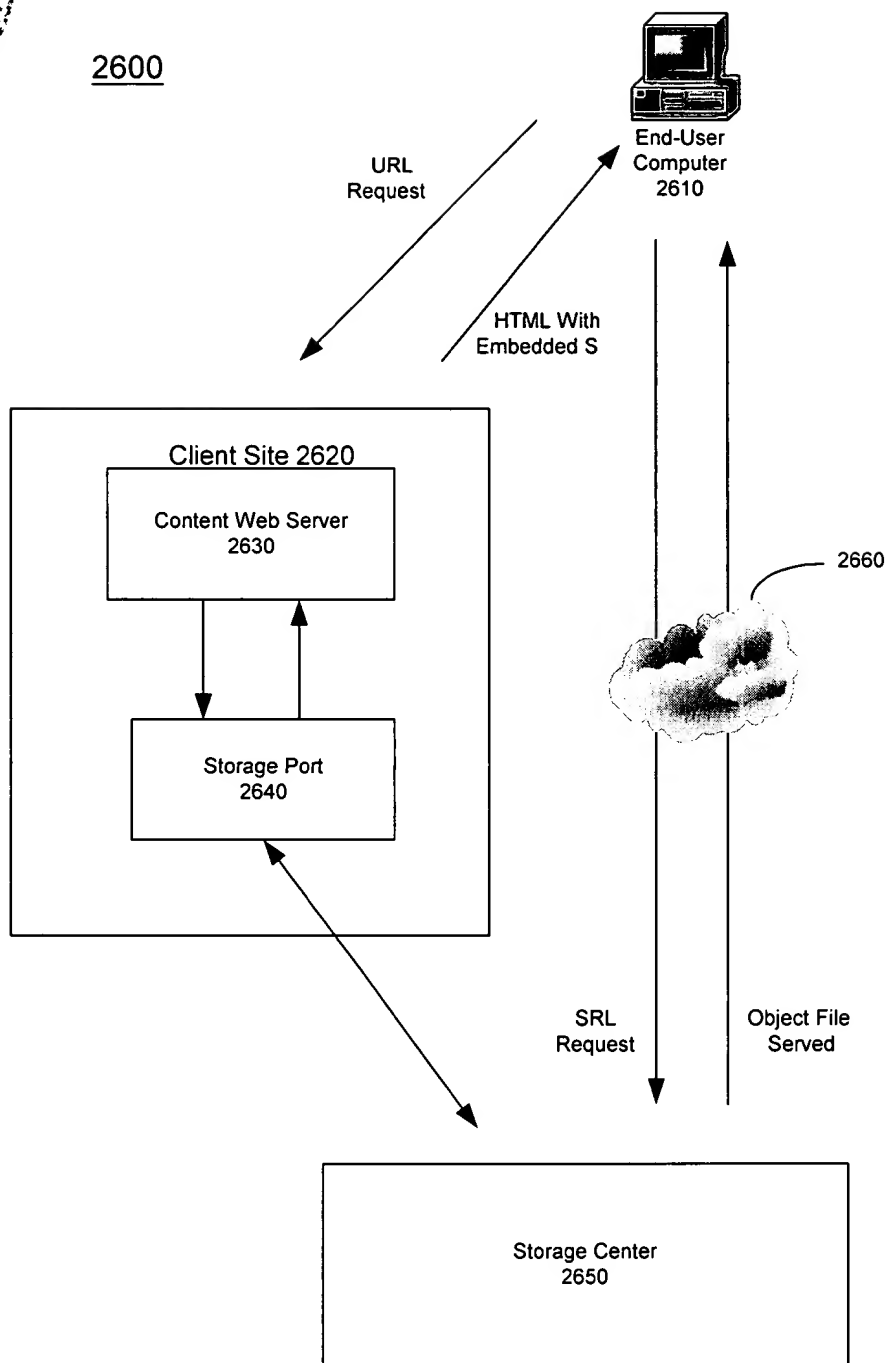
**Figure 23**



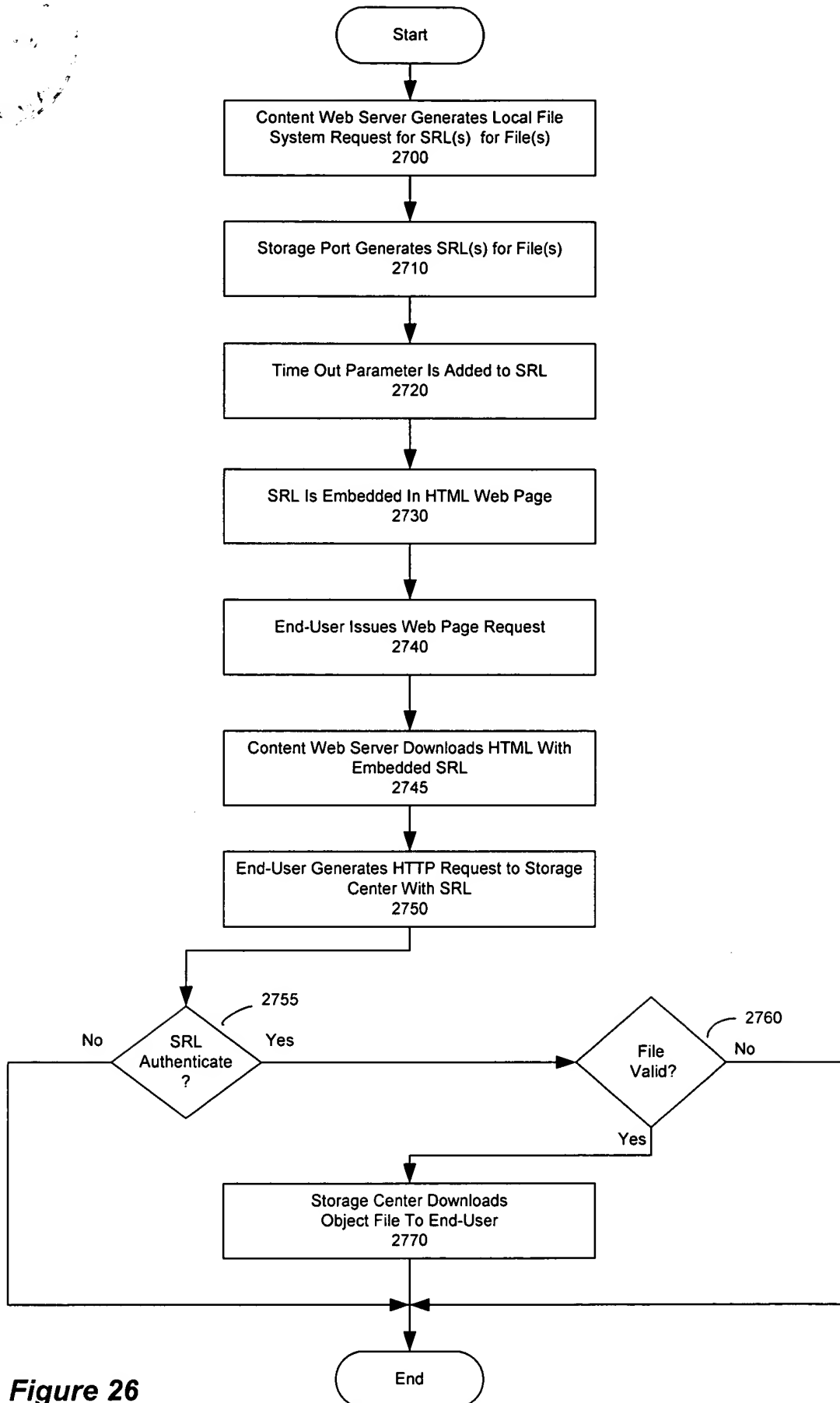


**Figure 24**

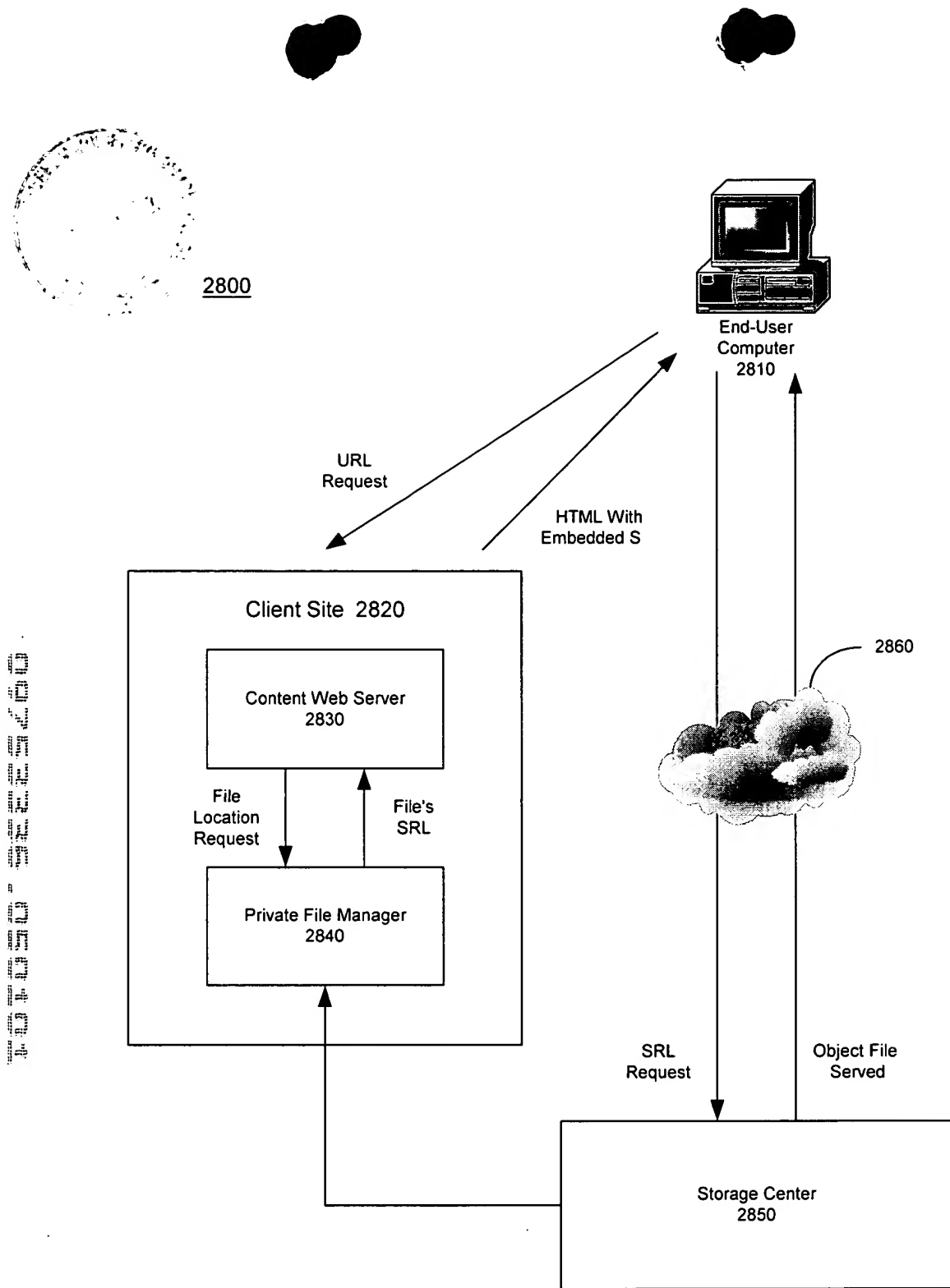
2600



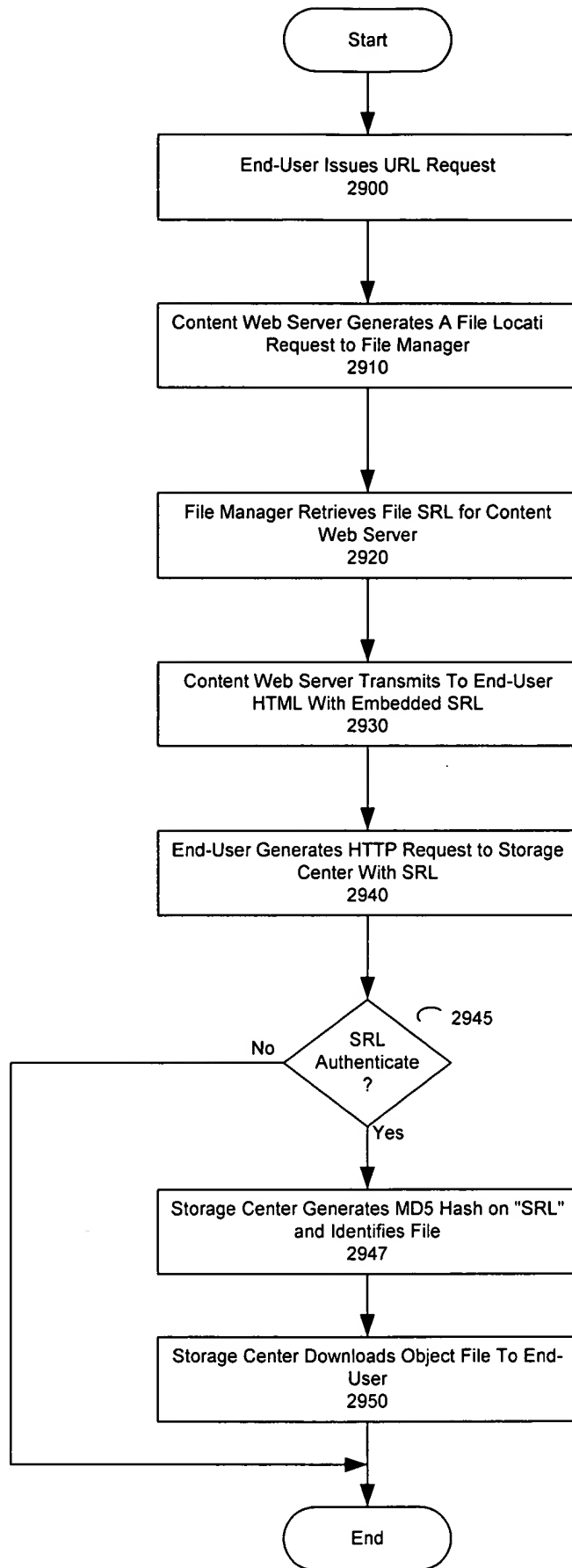
**Figure 25**



**Figure 26**



**Figure 27**



**Figure 28**

FIG. 29 is a block diagram of a system architecture for a client site network. The system includes an Active Storage Port 3010 and a Passive Storage Port 3020, both connected to a Client Site Network 3060. The Active Storage Port 3010 includes a Network Interface 3045, a Network Interface 3055, and Health Monitoring 3070. The Passive Storage Port 3020 includes a Network Interface 3025, a Network Interface 3030, and Health Monitoring 3080. A cloud icon 3065 represents the Client Site Network 3060. Arrows indicate data flow between the storage ports and the network. A label 'IP Addr' is positioned above the storage ports. A label 'Failover Monitoring' is positioned between the storage ports. A label 'Figure 29' is located at the bottom right of the diagram.

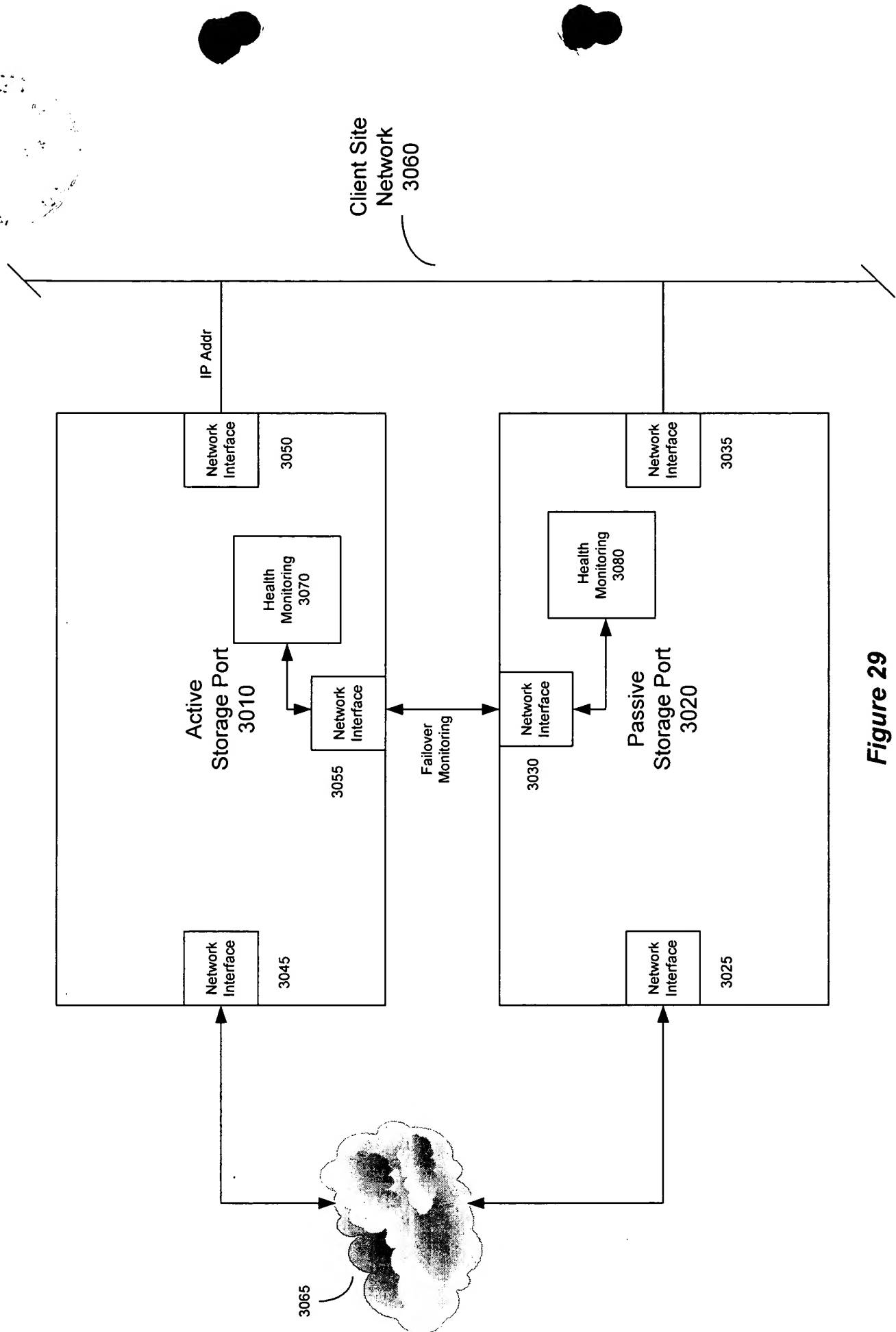
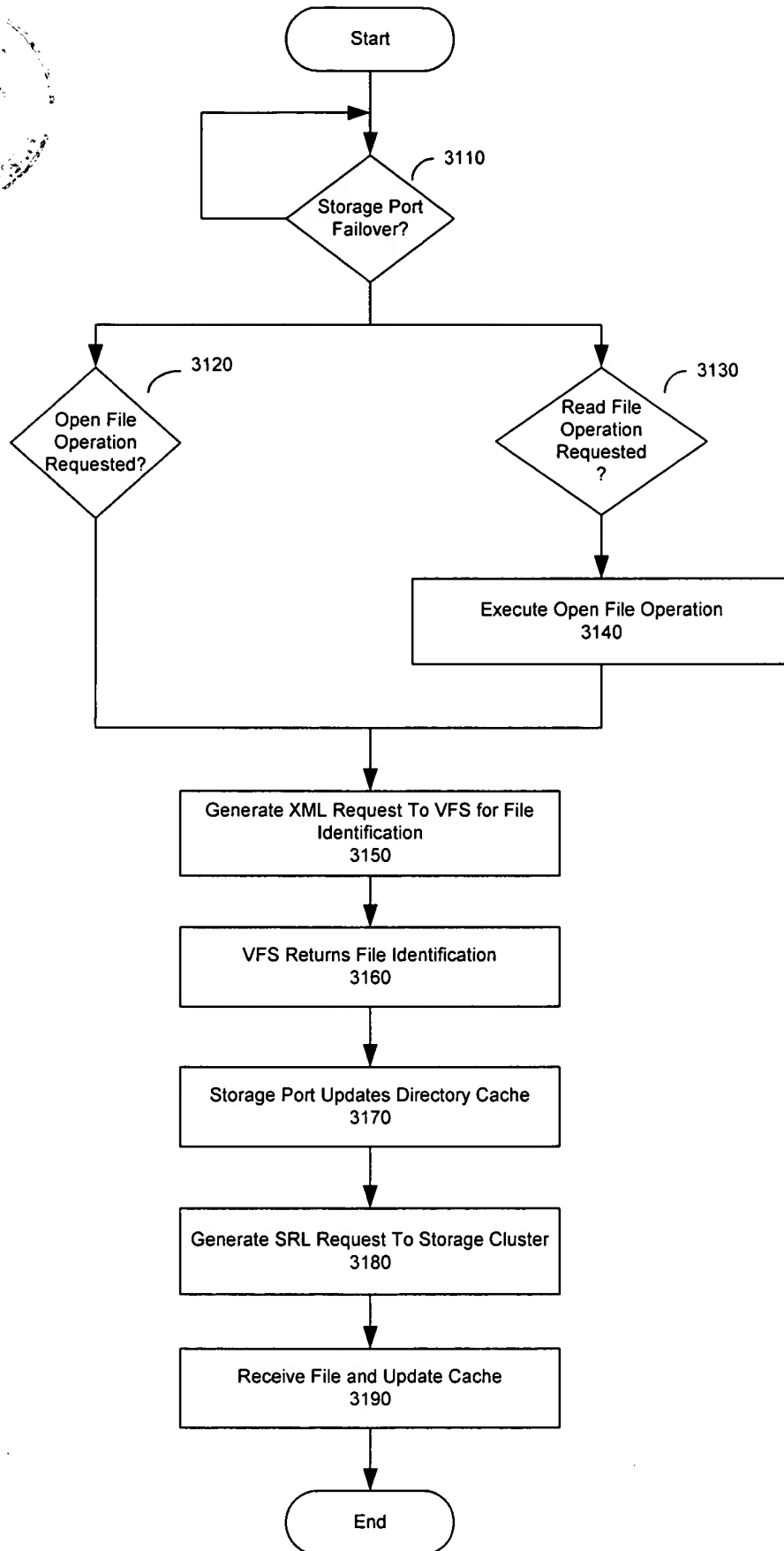
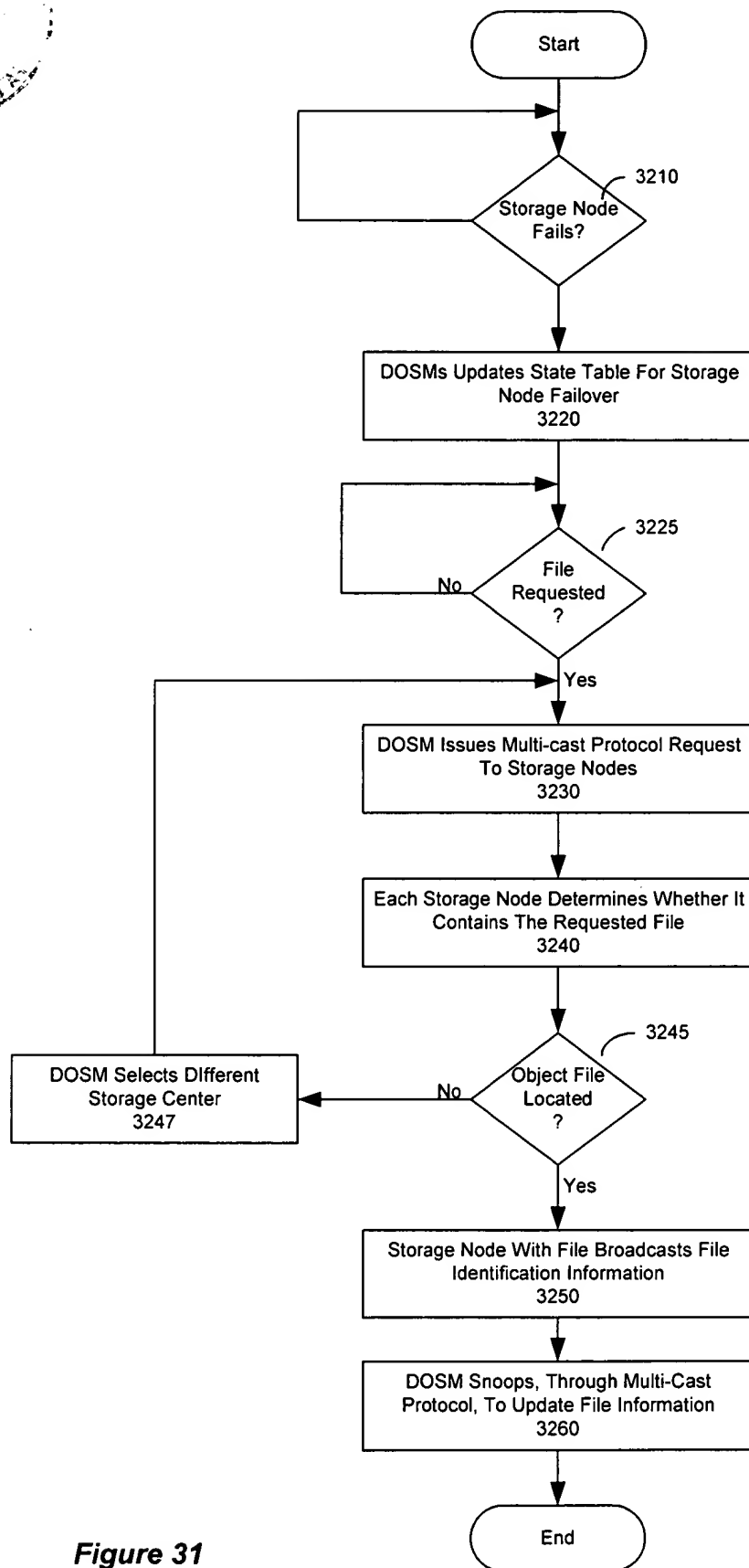


Figure 29



**Figure 30**



**Figure 31**